

WHAT IS CLAIMED IS:

Sub A1 1. A resin sheet containing dispersed particles which comprises a base layer comprising a thermoplastic resin or thermoset resin and dispersed therein an inorganic oxide having an average particle diameter of 1 to 100 nm, the amount of the inorganic oxide being 0.1 to 23% by weight based on the weight of the base layer.

2. The resin sheet containing dispersed particles of claim 1, which has a light transmittance of 88% or higher at $\lambda = 550 \text{ nm}$.

3. The resin sheet containing dispersed particles of claim 1, which has a coefficient of linear expansion of $1.00\text{E}-4/^{\circ}\text{C}$ or lower as measured in the temperature range of 100°C to 160°C .

4. The resin sheet containing dispersed particles of claim 1, wherein the dimensional change of the resin sheet as calculated from the size thereof measured immediately after 20 minutes heating at 150°C and the size thereof measured immediately after 20 minutes heating at 150°C and subsequent 2 hours standing at room temperature is lower than $+0.020\%$.

5. A resin sheet containing dispersed particles which comprises the resin sheet containing dispersed particles of claim 1 and an electrode formed thereon.

6. A resin sheet containing dispersed particles which comprises the resin sheet containing dispersed particles of claim 1 and formed thereon a reflecting layer comprising a thin metal layer.

7. The resin sheet containing dispersed particles of

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claim 6, which has an oxygen permeability of $0.3 \text{ cc/m}^2 \cdot 24\text{h} \cdot \text{atm}$ or lower.

8. A liquid crystal display which uses the resin sheet containing dispersed particles of claim 1.

9. The resin sheet containing dispersed particles of claim 1, wherein the base layer contains a diffuser dispersed therein which has a refractive index different from that of the resin constituting the base layer and has an average particle diameter of 0.2 to $100 \mu\text{m}$, the amount of the diffuser being 0.1 to 60% by weight based on the weight of the base layer.

10. The resin sheet containing dispersed particles of claim 9, wherein the difference in specific gravity between the diffuser and the resin constituting the base layer is 1 or smaller.

11. The resin sheet containing dispersed particles of claim 9, wherein the difference in refractive index between the diffuser and the resin constituting the base layer is 0.03 to 0.10 .

12. A resin sheet containing dispersed particles which comprises the resin sheet containing dispersed particles of claim 9 and formed thereon a reflecting layer comprising a thin metal layer.

13. The resin sheet containing dispersed particles of claim 12, which has an oxygen permeability of $0.3 \text{ cc/m}^2 \cdot 24\text{h} \cdot \text{atm}$ or lower.

14. The resin sheet containing dispersed particles of claim 9, wherein the base layer is an outermost layer and

the outer surface of the base layer is smooth.

15. A liquid crystal display which uses the resin sheet containing dispersed particles of claim 9.

16. A resin sheet containing dispersed particles which comprises a base layer which is constituted of a thermoplastic resin or a thermosetting resin and contains, dispersed in the resin, a diffuser which has a refractive index different from that of the resin and has an average particle diameter of 0.2 to 100 μm , the amount of the diffuser being 200 parts by weight or smaller per 100 parts by weight of the resin constituting the base layer.

17. The resin sheet containing dispersed particles of claim 16, wherein the difference in specific gravity between the diffuser and the resin constituting the base layer is 1 or smaller.

18. The resin sheet containing dispersed particles of claim 16, wherein the difference in refractive index between the diffuser and the resin constituting the base layer is 0.03 to 0.10.

19. A resin sheet containing dispersed particles which comprises the resin sheet containing dispersed particles of claim 16 and formed thereon a reflecting layer comprising a thin metal layer.

20. The resin sheet containing dispersed particles of claim 19, which has an oxygen permeability of 0.3 $\text{cc}/\text{m}^2 \cdot 24\text{h} \cdot \text{atm}$ or lower.

21. A resin sheet containing dispersed particles which

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comprises a base layer comprising a thermoplastic resin or a thermosetting resin and dispersed therein an inorganic oxide having an average particle diameter of 1 to 100 nm and an inorganic gas barrier layer, the amount of the inorganic oxide being 0.1 to 23% by weight based on the weight of the base layer.

22. The resin sheet containing dispersed particles of claim 21, which has a light transmittance of 85% or higher at $\lambda = 550$ nm.

23. The resin sheet containing dispersed particles of claim 21, which has a coefficient of linear expansion of $1.00\text{E-}4/^{\circ}\text{C}$ or lower as measured in the temperature range of 100°C to 160°C .

24. The resin sheet containing dispersed particles of claim 21, wherein the dimensional change of the resin sheet as calculated from the size thereof measured immediately after 20 minutes heating at 150°C and the size thereof measured immediately after 20 minutes heating at 150°C and subsequent 2 hours standing at room temperature is lower than $+0.015\%$.

25. The resin sheet of claim 21, wherein the inorganic gas barrier layer is made of a silicon oxide, in which the ratio of the number of oxygen atoms to that of silicon atoms is 1.5 to 2.0.

26. The resin sheet of claim 21, wherein the inorganic gas barrier layer is made of a silicon nitride, in which the ratio of the number of nitrogen atoms to that of silicon atoms is 1.0 to $4/3$.

27. The resin sheet of claim 21, wherein the inorganic

gas barrier layer has a thickness of 5 to 200 nm.

28. The resin sheet of claim 21, which has a water vapor permeability of $10 \text{ g/m}^2 \cdot 24 \text{ h} \cdot \text{atm}$ or lower.

29. The resin sheet containing dispersed particles of claim 21, wherein the base layer contains a diffuser dispersed therein which has a refractive index different from that of the resin constituting the base layer and has an average particle diameter of 0.2 to $100 \text{ }\mu\text{m}$, the amount of the diffuser being 0.1 to 60% by weight based on the weight of the base layer.

30. The resin sheet containing dispersed particles of claim 29, wherein the difference in specific gravity between the diffuser and the resin constituting the base layer is 1 or smaller.

31. The resin sheet containing dispersed particles of claim 29, wherein the difference in refractive index between the diffuser and the resin constituting the base layer is 0.03 to 0.10.

32. The resin sheet containing dispersed particles of claim 29, wherein the base layer is an outermost layer and the outer surface of the base layer is smooth.

33. A liquid crystal display which uses the resin sheet containing dispersed particles of claim 29.

34. A resin sheet containing dispersed particles which comprises: a base layer which is constituted of a thermoplastic resin or thermoset resin and contains, dispersed in the resin, a diffuser which has a refractive index different from that of the resin and has an average particle diameter of 0.2 to

100 μm ; and an inorganic gas barrier layer, the amount of the diffuser being 200 parts by weight or smaller per 100 parts by weight of the resin constituting the base layer.

35. The resin sheet containing dispersed particles of claim 34, wherein the difference in specific gravity between the diffuser and the resin constituting the base layer is 1 or smaller.

36. The resin sheet containing dispersed particles of claim 34, wherein the difference in refractive index between the diffuser and the resin constituting the base layer is 0.03 to 0.10.

37. The resin sheet containing dispersed particles of claim 34, which has a water vapor permeability of $10 \text{ g/m}^2 \cdot 24 \text{ h} \cdot \text{atm}$ or lower.

38. A resin sheet containing dispersed particles which comprises a base layer comprising a thermoplastic resin or a thermosetting resin and dispersed therein an inorganic oxide having an average particle diameter of 1 to 100 nm and a color filter layer, the amount of the inorganic oxide being 0.1 to 23% by weight based on the weight of the base layer.

39. The resin sheet containing dispersed particles of claim 38, which has a coefficient of linear expansion of $1.00\text{E-}4/^{\circ}\text{C}$ or lower as measured in the temperature range of 100°C to 160°C .

40. The resin sheet containing dispersed particles of claim 38, wherein the dimensional change of the resin sheet as calculated from the size thereof measured immediately after

20 minutes heating at 150°C and the size thereof measured immediately after 20 minutes heating at 150°C and subsequent 2 hours standing at room temperature is lower than +0.020%.

41. The resin sheet containing dispersed particles of claim 38, wherein the base layer contains a diffuser dispersed therein which has a refractive index different from that of the resin constituting the base layer and has an average particle diameter of 0.2 to 100 μm , the amount of the diffuser being 0.1 to 60% by weight based on the weight of the base layer.

42. The resin sheet containing dispersed particles of claim 41, wherein the difference in specific gravity between the diffuser and the resin constituting the base layer is 1 or smaller.

43. The resin sheet containing dispersed particles of claim 41, wherein the difference in refractive index between the diffuser and the resin constituting the base layer is 0.03 to 0.10.

44. The resin sheet containing dispersed particles of claim 41, wherein the base layer is an outermost layer and the outer surface of the base layer is smooth.

45. A liquid crystal display which employs the resin sheet containing dispersed particles of claim 41.

46. A resin sheet containing dispersed particles which comprises: a base layer which is constituted of a thermoplastic resin or thermoset resin and contains, dispersed in the resin, a diffuser which has a refractive index different from that of the resin and has an average particle diameter of 0.2 to

100 μm ; and a color filter layer, the amount of the diffuser being 200 parts by weight or smaller per 100 parts by weight of the resin constituting the base layer.

47. The resin sheet containing dispersed particles of claim 46, wherein the difference in specific gravity between the diffuser and the resin constituting the base layer is 1 or smaller.

48. The resin sheet containing dispersed particles of claim 46, wherein the difference in refractive index between the diffuser and the resin constituting the base layer is 0.03 to 0.10.